

In the Abstract:

Kindly delete the entire Abstract and substitute the following:

A heat sink adapted for cooling a heat generating component, operative with an air moving means to generate airflow and remove the generated heat. The heat sink comprises a heat conducting element in thermal contact with the heat generating component, which is also in thermal contact with a plurality of fins having through fin-perforations defining free airflow passages and heat paths so as to spread the generated heat through the perforated fins. The structural configuration and relative spatial disposition of the perforated fins form airflow directing elements for the generated airflow, which flows via an air inlet and through inflow and outflow air passages which are in fluid communication via the fin-perforations, such that the airflow directing elements at least partially block the generated airflow, thus substantially directing all of it to flow via each of the fin-perforations, thereby developing cross-flow only once through the fin-perforations so as to exit via the air outlet.